

Title (en)

INFEED ASSEMBLY QUICK CHANGE FEATURES

Title (de)

SCHNELLWECHSELFUNKTIONEN EINER ZUFÜHRANORDNUNG

Title (fr)

ÉLÉMENTS À CHANGEMENT RAPIDE D'ENSEMBLE D'ALIMENTATION

Publication

EP 3790821 A4 20220126 (EN)

Application

EP 19799591 A 20190509

Priority

- US 201862670199 P 20180511
- US 2019031406 W 20190509

Abstract (en)

[origin: US2019344976A1] A quick-change starwheel guide assembly is structured to be coupled to a starwheel guide assembly mounting base. The quick-change starwheel guide assembly includes a starwheel guide assembly mounting assembly, a starwheel guide assembly support assembly, a number of starwheel guide assembly guiderails and a starwheel guide assembly can body height adjustment assembly. The starwheel guide assembly mounting assembly is coupled to the starwheel guide assembly support assembly. The starwheel guide assembly guiderails are coupled to the starwheel guide assembly mounting assembly. The starwheel guide assembly can body height adjustment assembly is coupled to at least one the starwheel guide assembly guiderail. At least one of the starwheel guide assembly mounting assembly or the can body height adjustment assembly is a quick-change assembly.

IPC 8 full level

B65G 47/84 (2006.01)

CPC (source: CN EP US)

B21D 43/18 (2013.01 - US); **B21D 51/2638** (2013.01 - EP US); **B21D 51/2692** (2013.01 - EP US); **B65G 29/02** (2013.01 - US); **B65G 47/846** (2013.01 - CN); **B65G 47/848** (2013.01 - US); **B65G 47/918** (2013.01 - US); **B65G 47/848** (2013.01 - EP); **B65G 2201/0252** (2013.01 - EP US); **B65G 2207/08** (2013.01 - EP US)

Citation (search report)

- [XA] US 7387007 B2 20080617 - SCHILL JOSEPH G [US], et al
- [XA] US 2009266128 A1 20091029 - MERCER RICHARD [GB], et al
- [XA] WO 2009132254 A1 20091029 - CROWN PACKAGING TECHNOLOGY INC [US], et al
- See also references of WO 2019217607A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 10934104 B2 20210302; **US 2019344976 A1 20191114**; BR 112020022970 A2 20210202; CN 112105571 A 20201218; CN 112105571 B 20220419; CN 114890116 A 20220812; CN 114890116 B 20240202; EP 3790821 A2 20210317; EP 3790821 A4 20220126; JP 2021524808 A 20210916; JP 2022141655 A 20220929; JP 7095120 B2 20220704; JP 7354360 B2 20231002; WO 2019217607 A2 20191114; WO 2019217607 A3 20200723

DOCDB simple family (application)

US 201916407229 A 20190509; BR 112020022970 A 20190509; CN 201980031474 A 20190509; CN 202210504525 A 20190509; EP 19799591 A 20190509; JP 2020563720 A 20190509; JP 2022100049 A 20220622; US 2019031406 W 20190509